FIG. 1

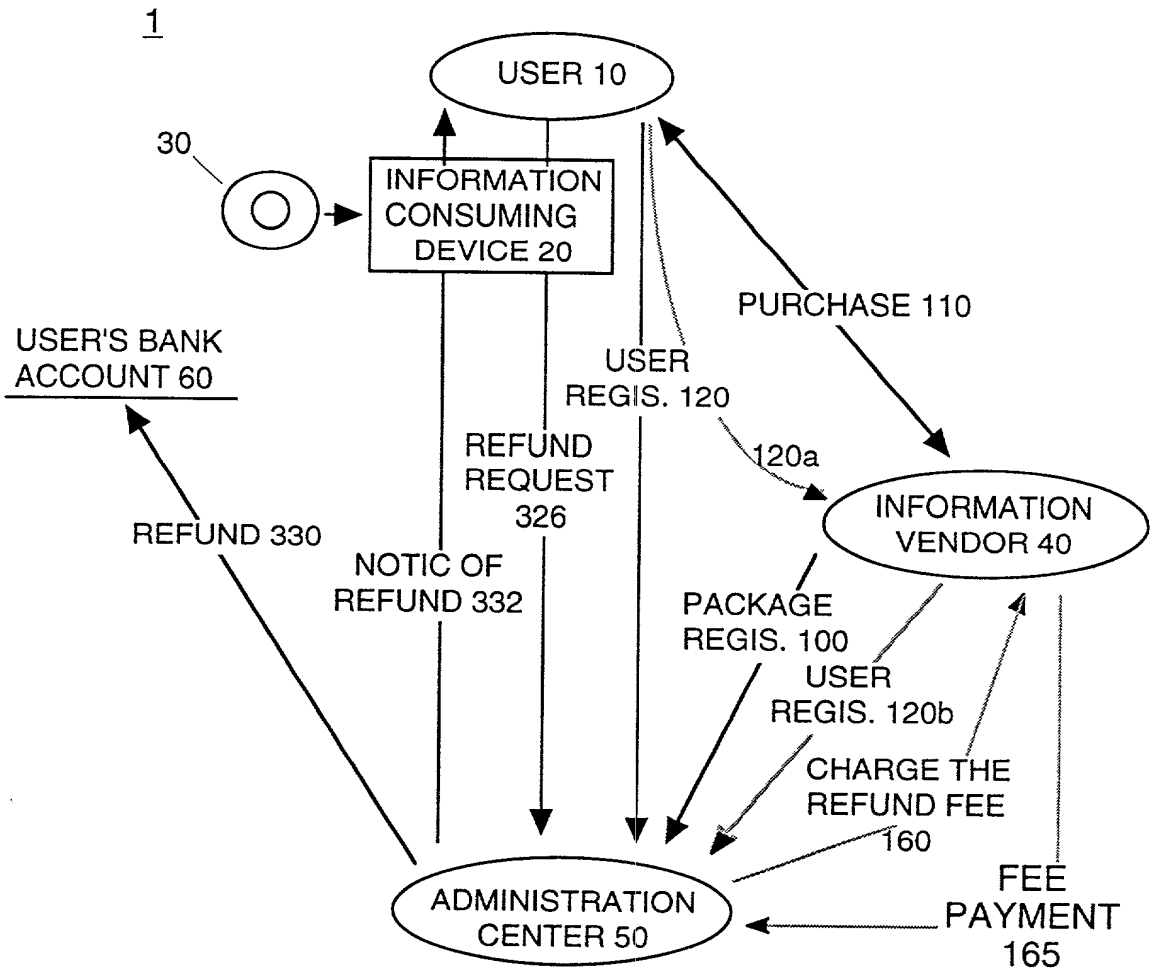


FIG. 2

30

PACKAGE ID		
SERIAL NO.		
OTHER INFORMATION ON THE PACKAGE		
CONTENT ID	PRICE (OPTIONAL)	CONTENT DATA
. . .	. . .	. . .

FIG. 3

52

PACKAGE ID	USER ID	BANK ACCOUNT	LIST OF IDs FOR ACTUALLY USED CONTENTS

FIG. 5

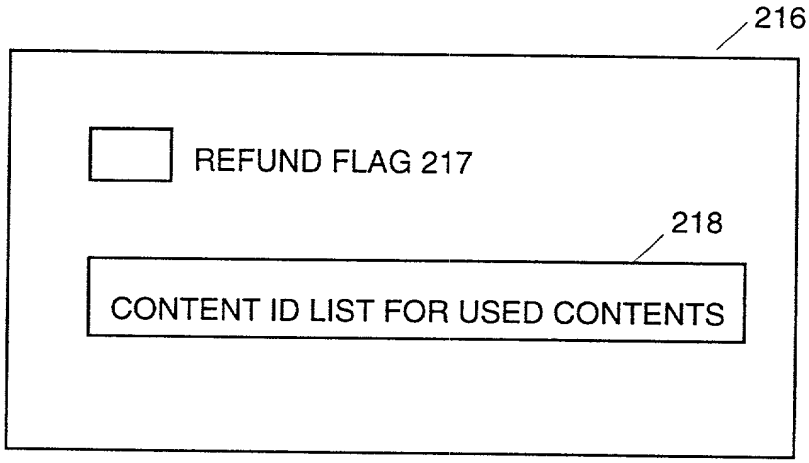


FIG. 6

30

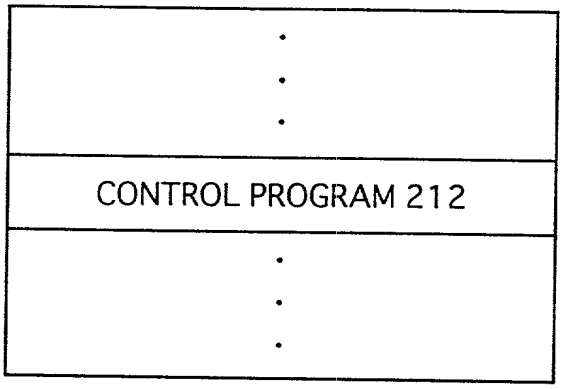


FIG. 4

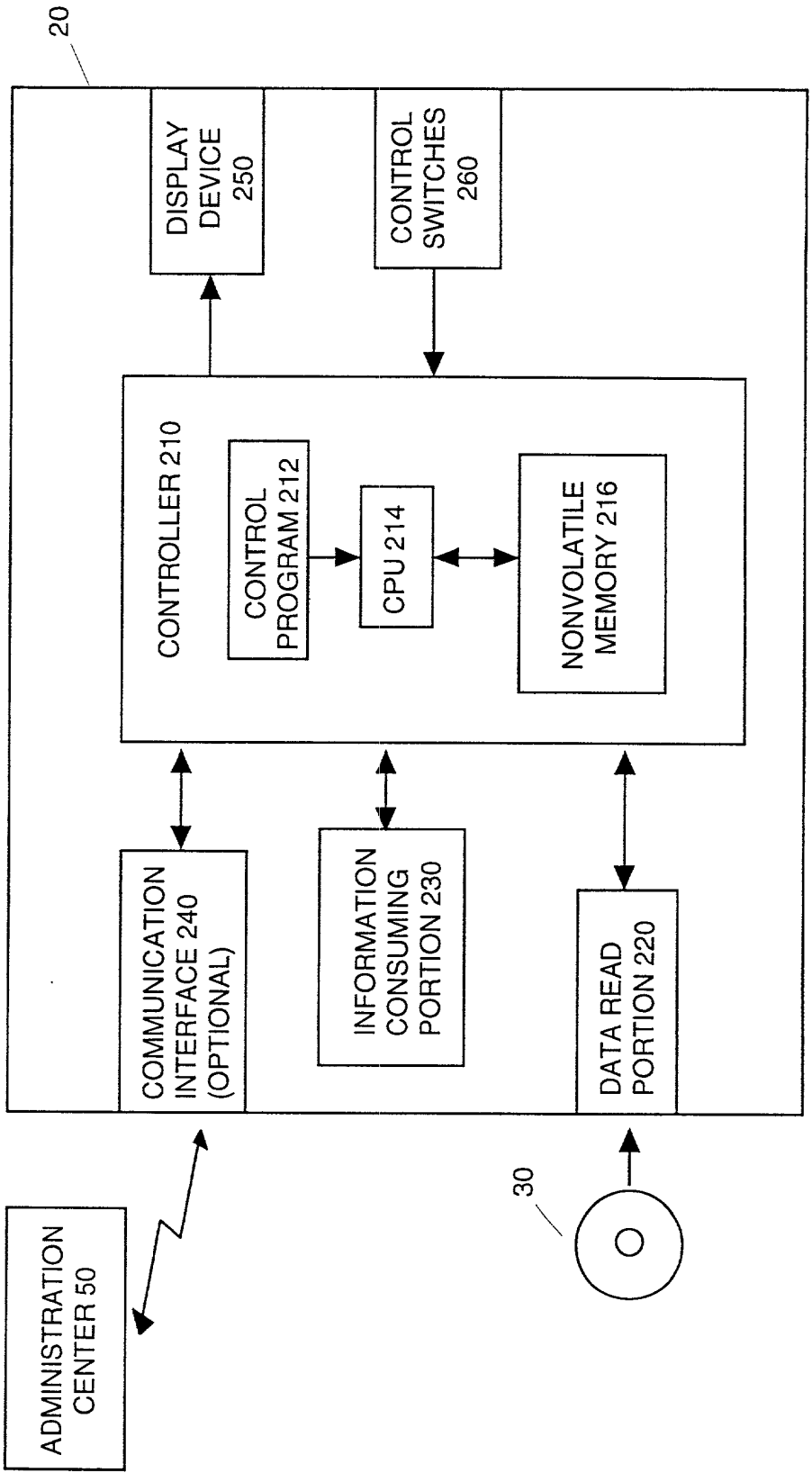

20
DISPLAY DEVICE 250
CONTROL SWITCHES 260
CONTROLLER 210
CONTROL PROGRAM 212
CPU 214
NONVOLATILE MEMORY 216
COMMUNICATION INTERFACE 240 (OPTIONAL)
INFORMATION CONSUMING PORTION 230
DATA READ PORTION 220
ADMINISTRATION CENTER 50
30

FIG. 7

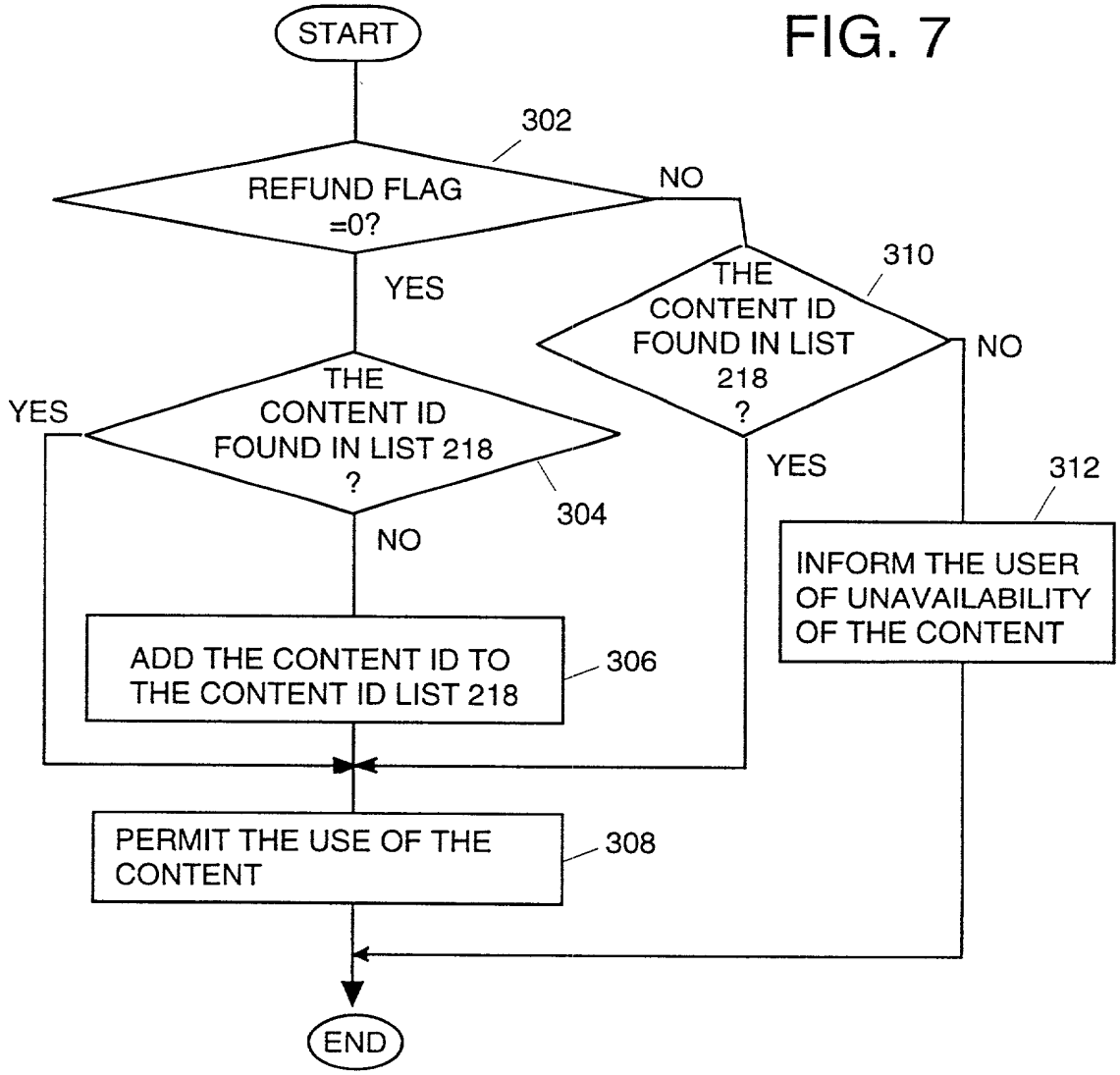

START
302
REFUND FLAG =0?
NO
YES
310
THE CONTENT ID FOUND IN LIST 218 ?
NO
YES
THE CONTENT ID FOUND IN LIST 218 ?
YES
304
312
NO
INFORM THE USER OF UNAVAILABILITY OF THE CONTENT
ADD THE CONTENT ID TO THE CONTENT ID LIST 218
306
PERMIT THE USE OF THE CONTENT
308
END

FIG. 8

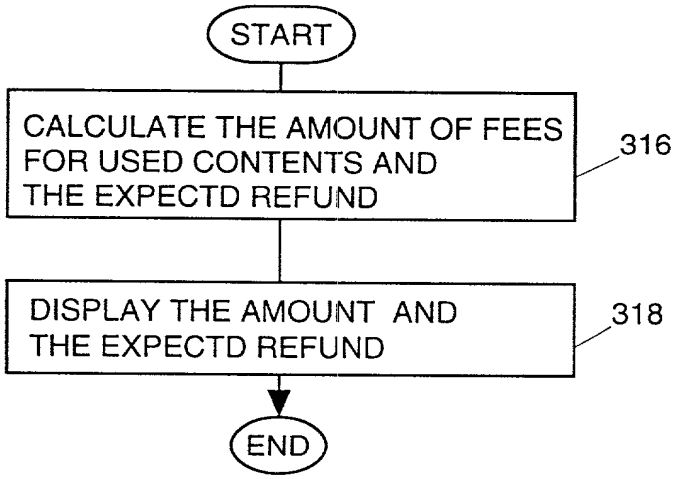

START
CALCULATE THE AMOUNT OF FEES FOR USED CONTENTS AND THE EXPECTD REFUND
316
DISPLAY THE AMOUNT AND THE EXPECTD REFUND
318
END

FIG. 9

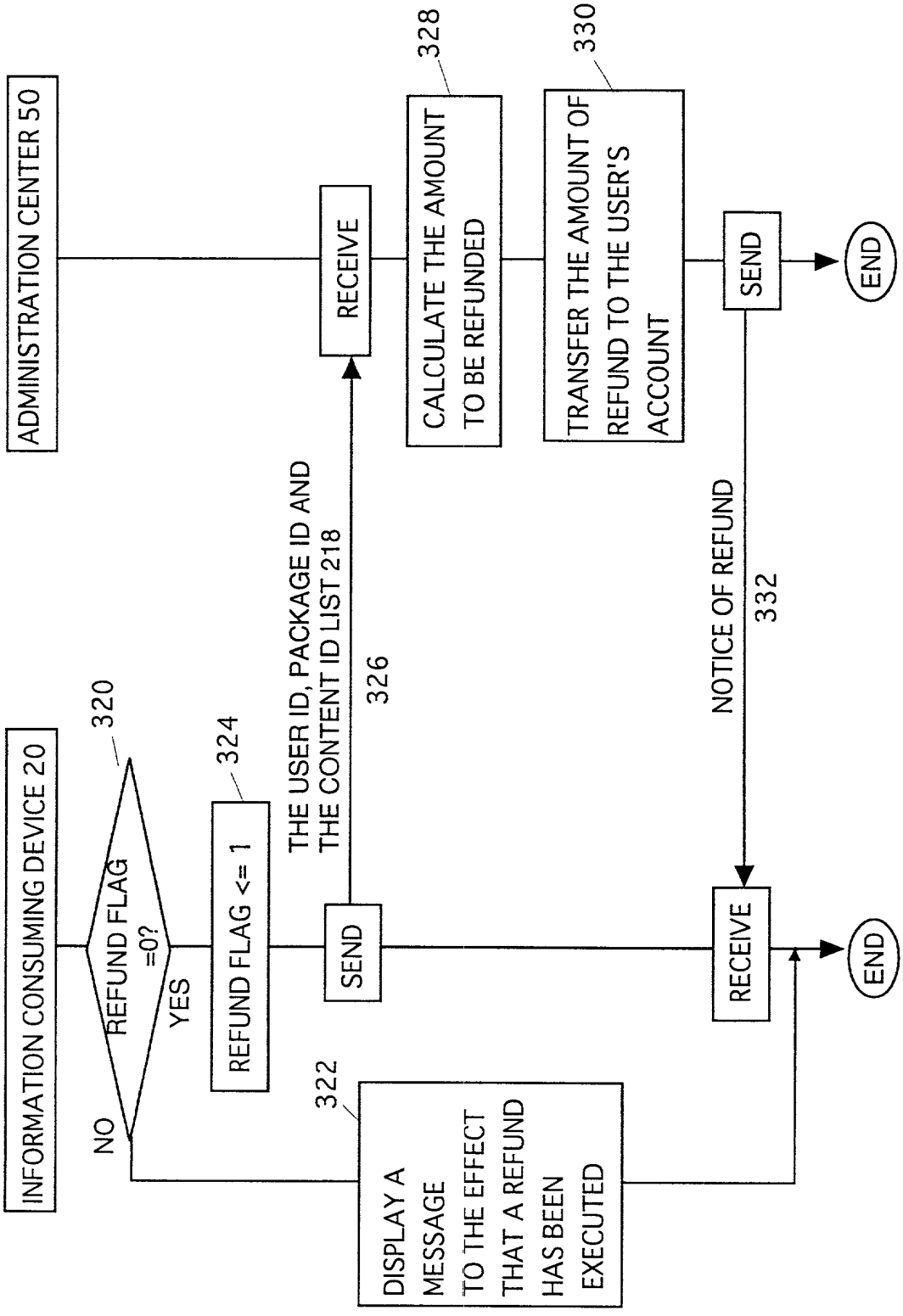

INFORMATION CONSUMING DEVICE 20
320
REFUND FLAG =0?
NO
YES
322
DISPLAY A MESSAGE TO THE EFFECT THAT A REFUND HAS BEEN EXECUTED
324
REFUND FLAG <= 1
SEND
THE USER ID, PACKAGE ID AND THE CONTENT ID LIST 218
326
ADMINISTRATION CENTER 50
RECEIVE
328
CALCULATE THE AMOUNT TO BE REFUNDED
330
TRANSFER THE AMOUNT OF REFUND TO THE USER'S ACCOUNT
SEND
NOTICE OF REFUND
332
RECEIVE
END
END

FIG. 10

CONTENT ID	PRICE

FIG. 12

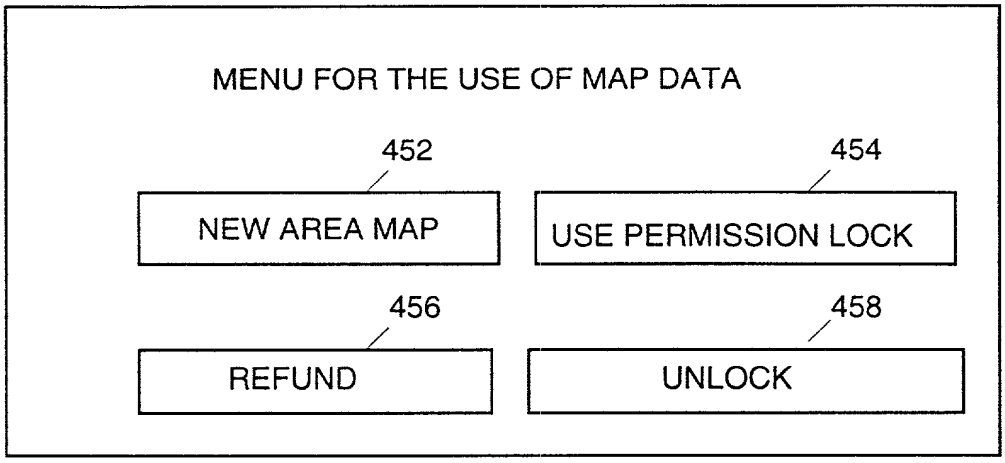


FIG. 13

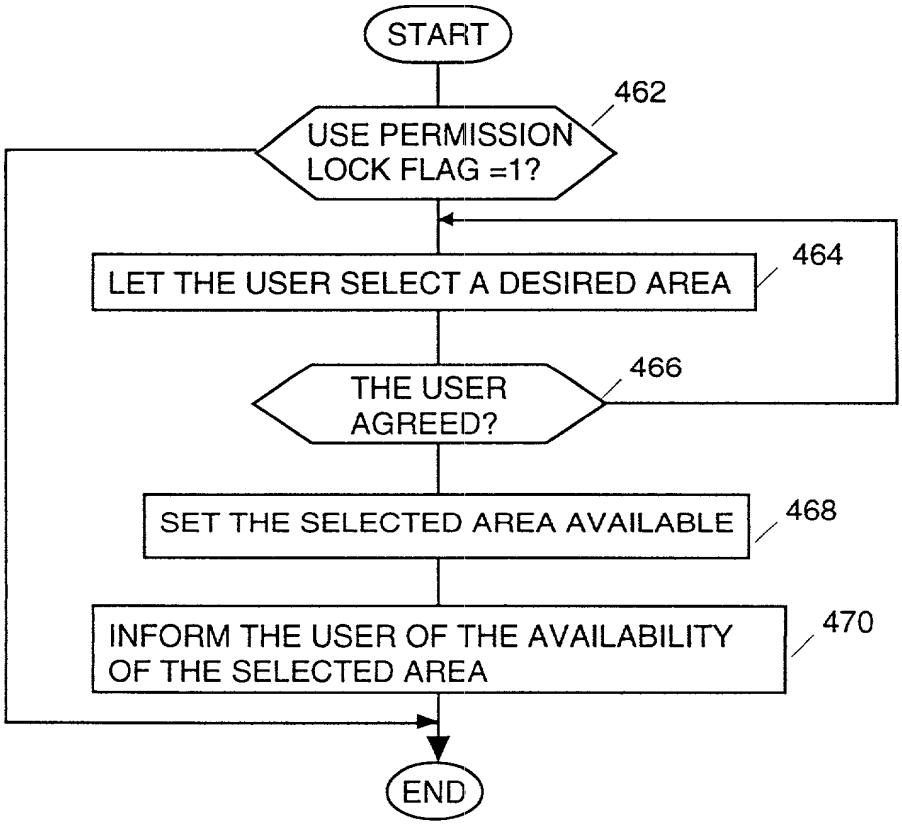


FIG. 11

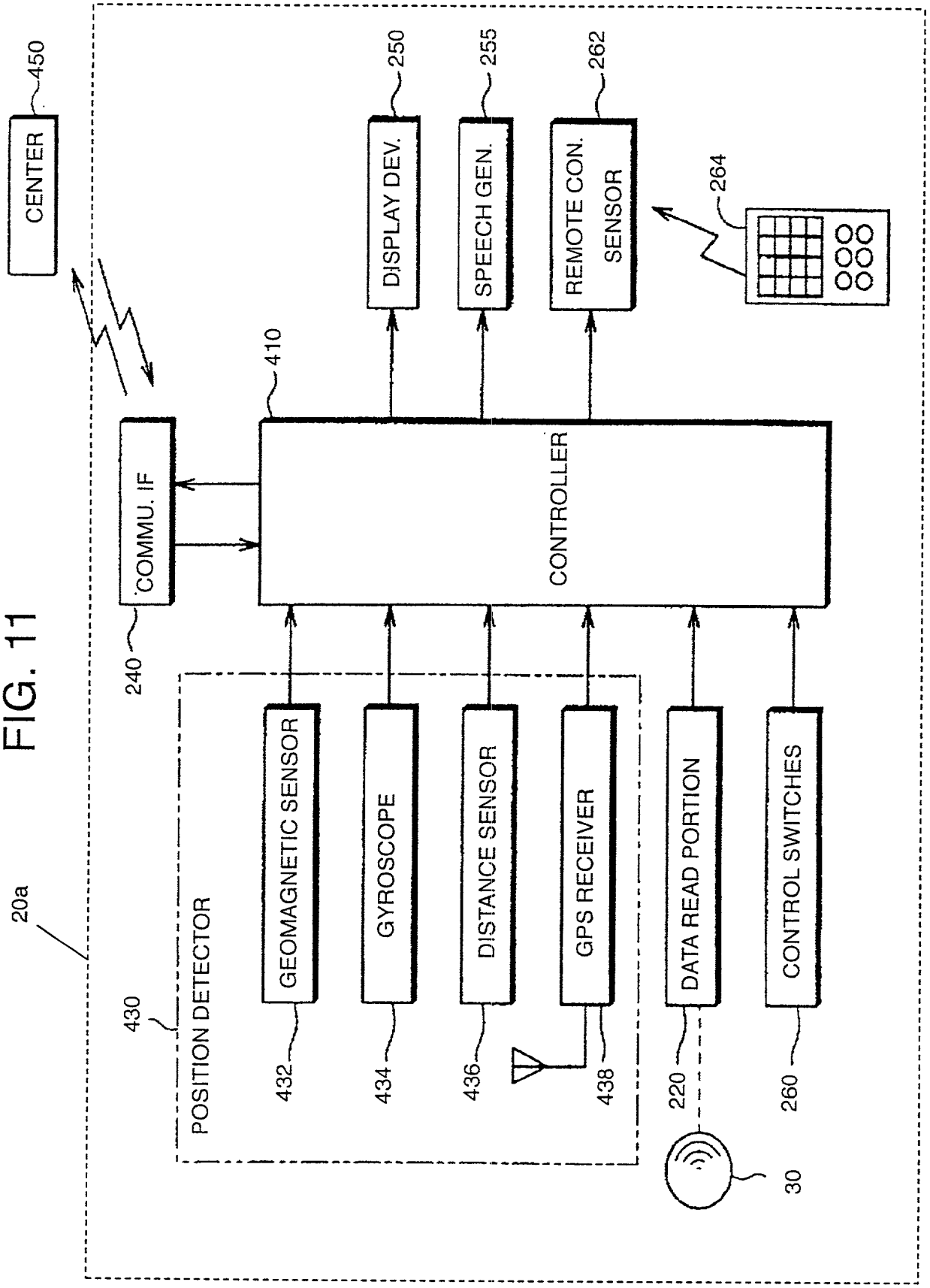

20a
CENTER
450
COMMU. IF
240
CONTROLLER
410
DISPLAY DEV.
250
SPEECH GEN.
255
REMOTE CON. SENSOR
262
264
POSITION DETECTOR
430
GEOMAGNETIC SENSOR
432
GYROSCOPE
434
DISTANCE SENSOR
436
GPS RECEIVER
438
DATA READ PORTION
220
CONTROL SWITCHES
260
30

FIG. 14

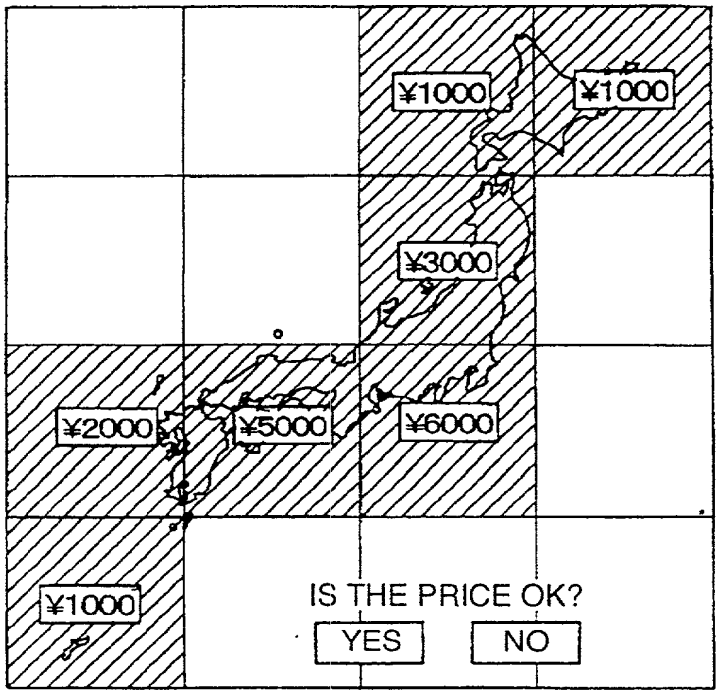

¥1000
¥1000
¥3000
¥2000
¥5000
¥6000
¥1000
IS THE PRICE OK?
YES
NO

FIG. 15

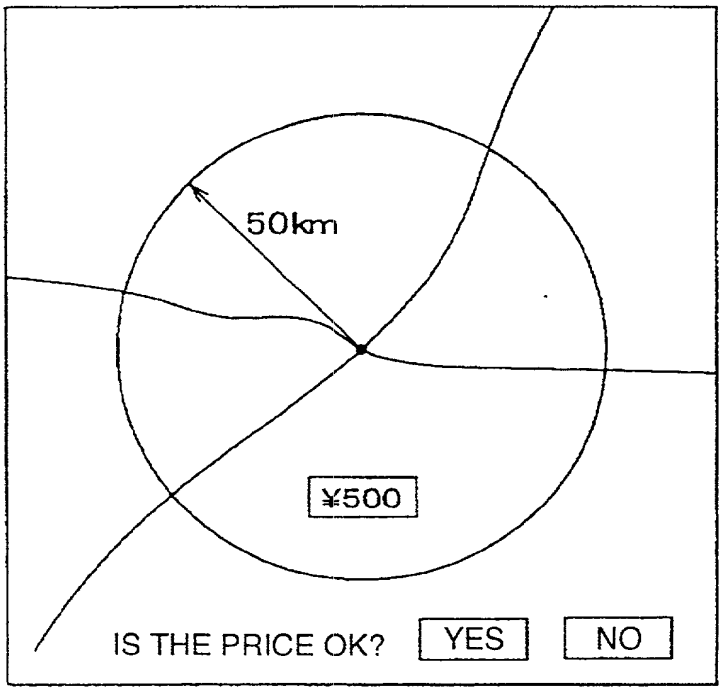

50km
¥500
IS THE PRICE OK?
YES
NO

FIG. 16A

	CLASS	CONDITIONS (PER 100 km^2)	PRICE
1	CITY AREA	TOTAL ROAD LENGTH >100 km or THE NUMBER OF FACILITIES >10000	¥1000
2	SUBURB	TOTAL ROAD LENGTH >50 km or THE NUMBER OF FACILITIES >5000	¥500
3	LOCAL	TOTAL ROAD LENGTH >20 km or THE NUMBER OF FACILITIES >1000	¥100
4	MOUNTAIN	TOTAL ROAD LENGTH <20 km or THE NUMBER OF FACILITIES <1000	¥10

FIG. 16B

	CONDITIONS	PRICE
1	TOWN PLAN (1/1500)	¥1000
2	DETAILED MAP (1/10000)	¥500
3	BASIC MAP (1/25000)	¥100
4	WIDE-AREA MAP (1/50000)	¥10

FIG. 16C

	CONDITION (POST OFFICES PER 100 km^2)	PRICE
1	MORE THAN 10	¥1000
2	MORE THAN 5	¥500
3	1 TO 4	¥100
4	0	¥10

FIG. 17

	CONDITION (DAYS ELAPSED FROM RELEASE TO AREA PERMISSION)	PRICE CORRECTION RATE
1	WITHIN HALF YEAR	1.0
2	WITHIN A YEAR	0.8
3	WITHIN TWO YEARS	0.7
4	MORE THAN TWO YEARS	0.5

FIG. 18

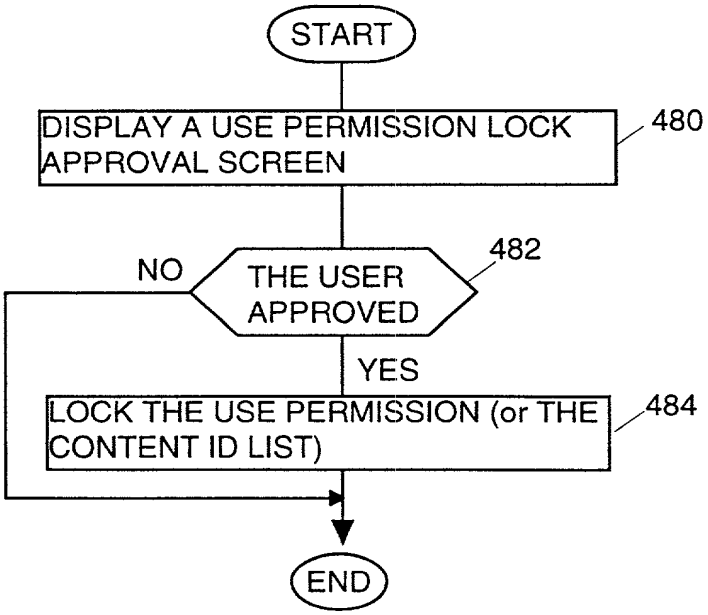


FIG. 19

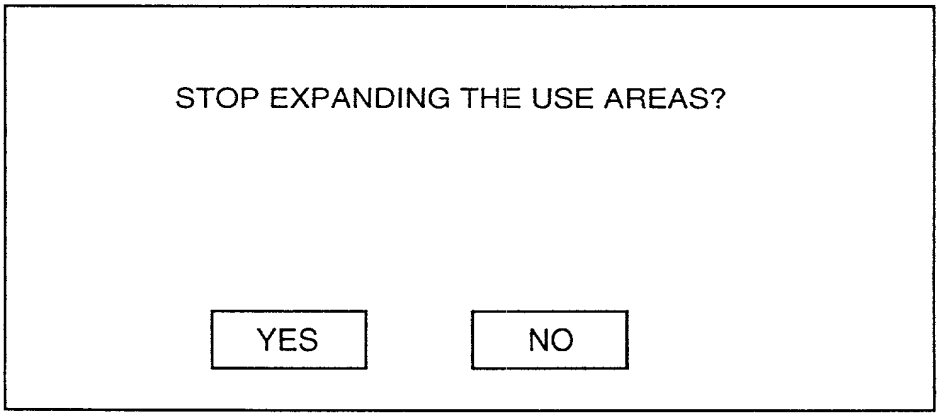
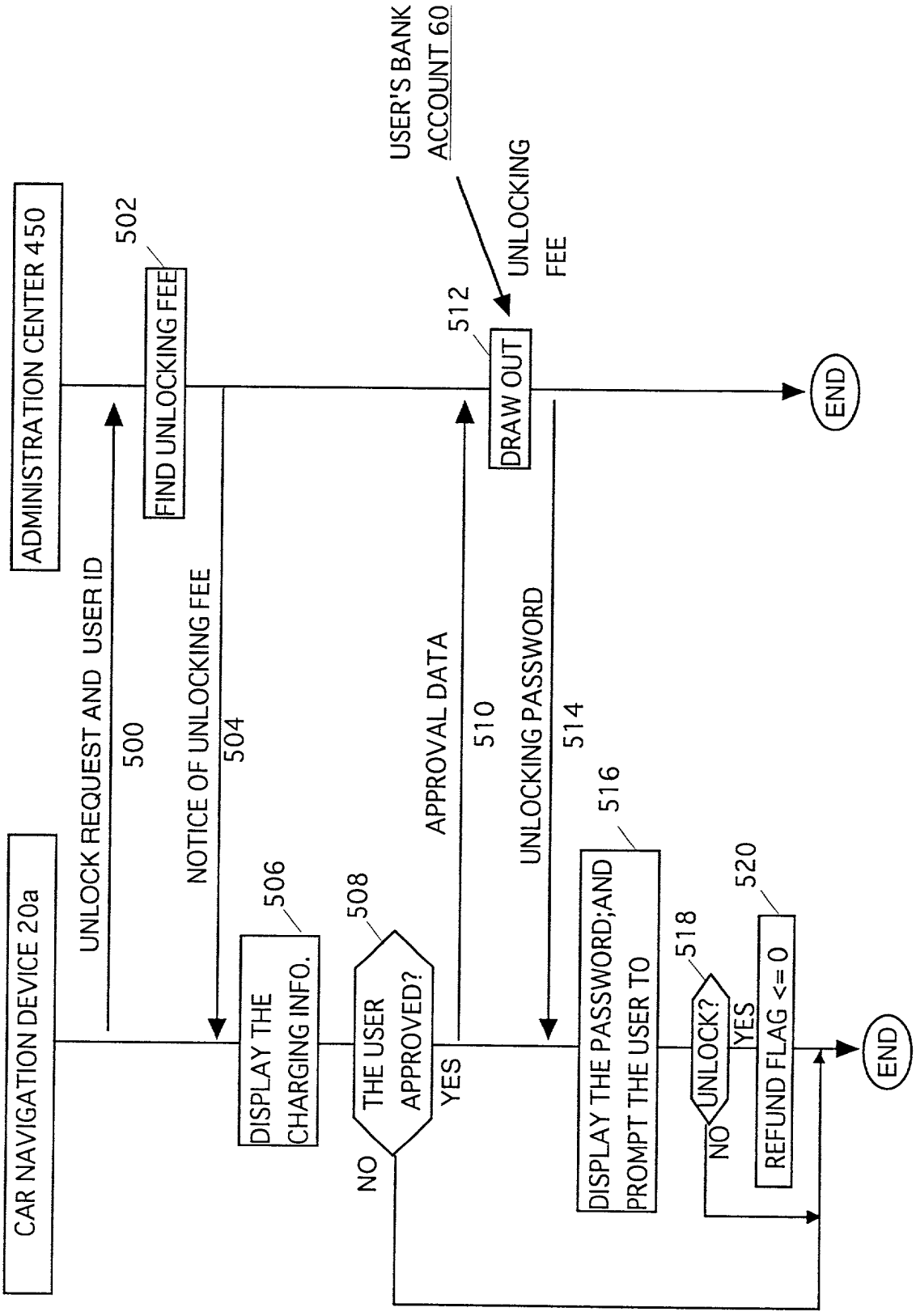


FIG. 20


CAR NAVIGATION DEVICE 20a
ADMINISTRATION CENTER 450
USER'S BANK ACCOUNT 60
UNLOCK REQUEST AND USER ID
500
FIND UNLOCKING FEE
502
UNLOCKING FEE
NOTICE OF UNLOCKING FEE
504
DISPLAY THE CHARGING INFO.
506
THE USER APPROVED?
508
NO
YES
APPROVAL DATA
510
DRAW OUT
512
UNLOCKING PASSWORD
514
DISPLAY THE PASSWORD;AND PROMPT THE USER TO
516
UNLOCK?
518
NO
YES
REFUND FLAG <= 0
520
END
END